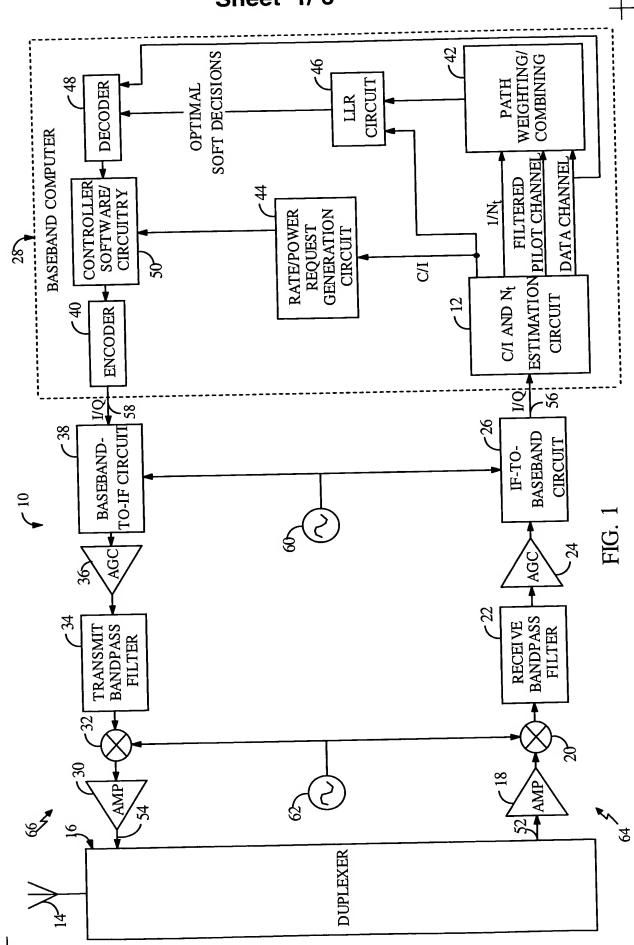
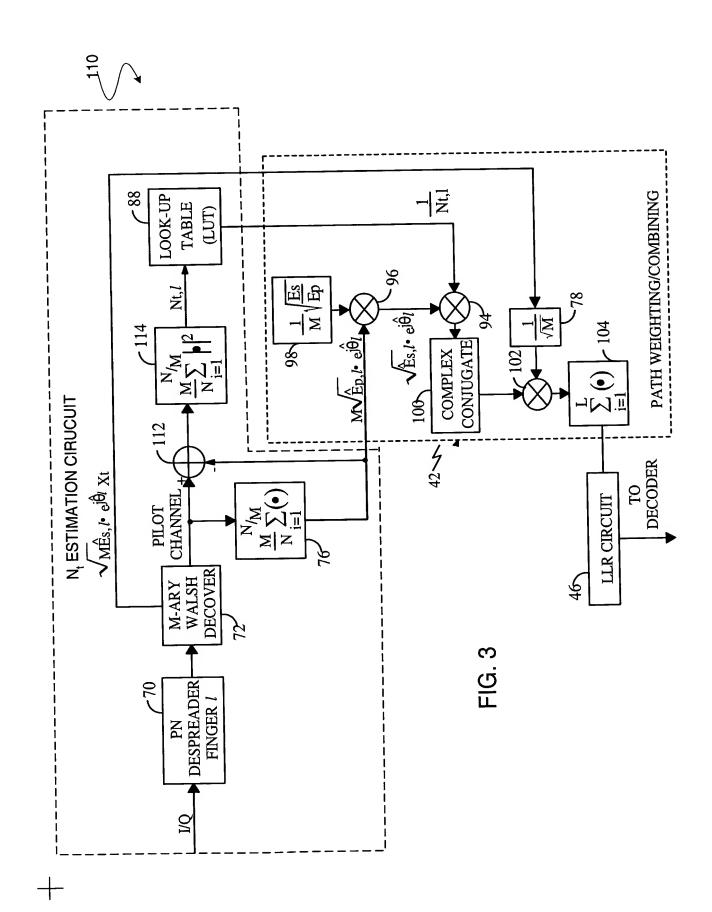
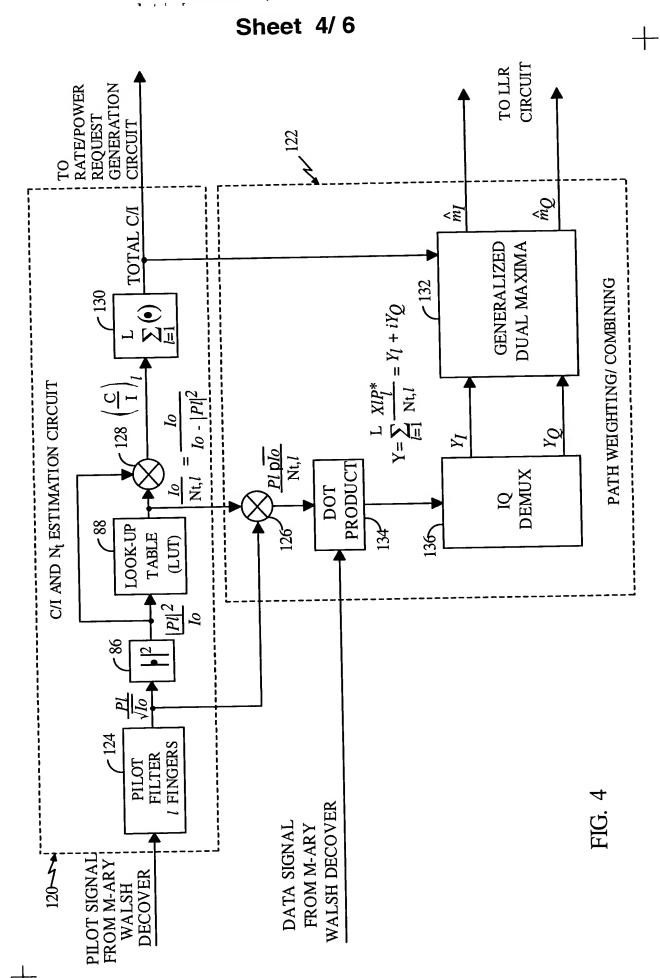
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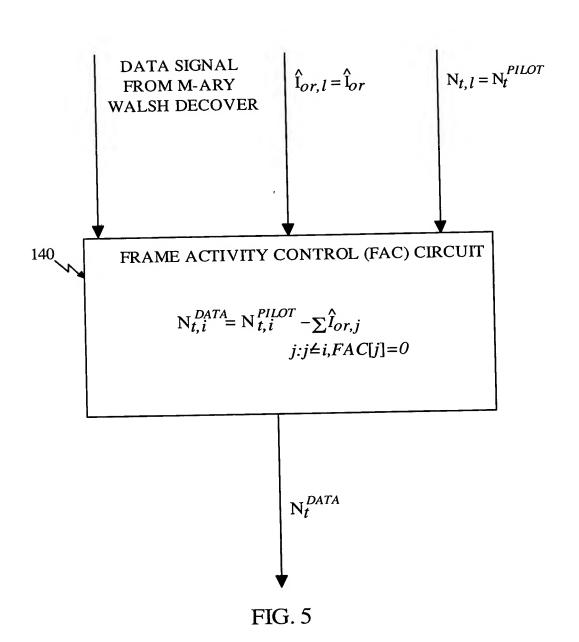
Sheet 2/6 42 12 TO DECODER PATH WEIGHTING/ C/I AND N_t ESTIMATION **COMBINING** CIRCUIT $q_{\widehat{MEs},l}$ $e^{j\hat{\theta}}_{l}Xt$ I/Q FROM IF-TO-BASEBAND **CIRCUIT DATA CHANNEL PILOT** M-ARY PN **CHANNEL** WALSH DESPREADER DECOVER FINGER l 98 84 76 \overline{N}_{M} Es $\frac{M}{N} \sum_{i=1}^{N} (\bullet)$ <u> 1 Ior</u> M √Ep M^2 E_p $M^{q} \hat{E}_{p,l} \cdot e^{j\hat{\theta}_{l}}$ Îο $M^2\hat{E}_{p,l}$ Îor, Nt, l $q_{\mathrm{\hat{E}s},l^{\bullet}}$ $\mathrm{e}^{\mathrm{i}\hat{\Theta}_{l}}$ 100 - 80 82 **COMPLEX** LOOK-UP Nt, lCONJUGATE **TABLE** (LUT) 90 -88 102 104 LLR CIRCUIT 46 TO TO RATE/POWER REQUEST **DECODER** GENERATION CIRCUIT FIG. 2

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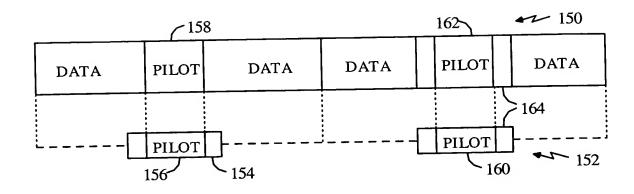


FIG. 6

